PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a pedestrian traffic control signal in conjunction with geometric improvements at the intersection of Georgia Avenue (US 29) and Ellsworth Drive in Montgomery County, Maryland. Georgia Avenue is assumed to run in a North-South direction.

II. INTERSECTION OPERATION

The phasing operation will be concurrent phasing for Georgia Avenue. The pedestrian phase will be exclusive only. Ellsworth Drive will not be controlled by the signal.

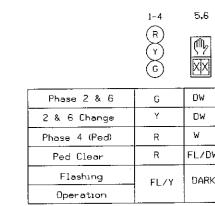
III. CONTROLLER REQUIREMENTS

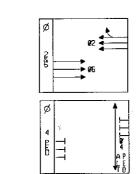
FULL-TRAFFIC ACTUATED, EIGHT PHASE CONTROLLER WITH SYSTEM PACKAGE HOUSED IN A NEMA SIZE "5" BASE MOUNTED CABINET.

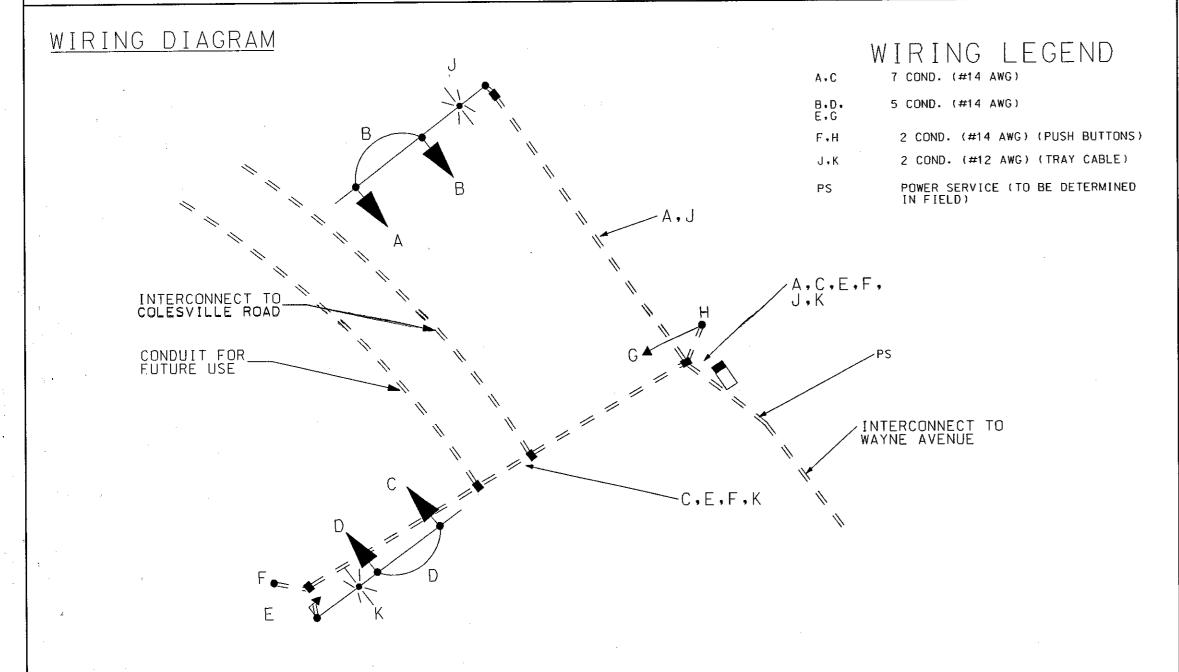
IV. SPECIAL NOTES

- 1. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: 104.00-13, 104.00-19, 104.00-21-104.00-24, 104.17-01, 104.17-02, 104.39-02, 104.41-02, 104.48-01, 104.48-02, 104.49-01, 104.49-02, 104.81-01, 104.81-02,
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PULLING ALL CABLE TO THE CABINET AND SHALL PROPERLY LABEL EACH CABLE.
- 3. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- 4. ALL DISCONNECTING AND CONNECTING OF TRAFFIC SIGNAL INTERCONNECT CABLE SHALL BE THE RESPONSIBILITY OF THE MONTGOMERY COUNTY DPW&T. CONTACT MR. ROBERT GONZALES AT (240) 777-8761 AT LEAST 72 HOURS PRIOR TO INITIATING ANY CONSTRUCTION WORK

PHASE CHART AND PHASING DIAGRAM







EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE STATE HIGHWAY ADMINISTRATION

CATEGORY CODE NO.

DESRCRIPTION

EQUIPMENT LIST "B"

B. EQUIPMENT	TO BE FURNI	SHED AND/OR INST	TALLED BY THE CONTRACTOR
QUANTITY	UNITS	CATEGORY CODE NO.	DESRCRIPTION
35	SF	973023	Furnish sheet aluminum signs consisting of:
			1 EA R6-1 (36"×24")
			2 EA R3-2 (24"×24")
			1 EA R1-1 (30"×30")
			1 EA R10-11b (24"×324")
			2 EA R10-4 (9"x12")
			1 EA CUSTOM STREET NAME SING
1	EA	816110	Traffic Signal Cabinet NEMA Size 5
LS	LS	120500	Maintenance of Traffic
LS	LS	130850	Mobilization
2	CY	203030	Test pit excavation
7	CY	801004	Concrete for signal pole foundation
200	LF	805118	Furnish and install 4" schedule 80 PVC
200	LF	805155	conduit (bored) Furnish and install 4" schedule 80 PVC
			conduit (slotted) Furnish and install 2" schedule 80 PVC
20	LF	805125	conduit (trenched) Furnish and install 3" schedule 80 PVC
1450	LF	805135	conduit (trenched) Furnish and install 4" schedule 80 PVC
20	LF	805140	conduit (trenched)
7	EA	811091 .	Furnish and install electrical handhole
2	EA	813015	Install overhead sign
2	EΑ	837001	Furnish and install ³ /4in diameter X 10 ft. ground rod
4.0	EA	860200	12 in. vehicle signal head section
12 4	EA	860282	12 in., one way countdown pedestrian signal head section
1	EA	860292	Cut, clean, and galvanize signal structure
100	LF	861105	Furnish and install 2-conductor (#14 AWG) electrical cable
400	LF	861107	Furnish and install 5-conductor (#14 AWG) electrical cable
2	EA	865201	Furnish and install APS pedestrian push button assemblies and signs
2	EA	867204	Install 27' steel mast arm pole with 38' mast arm and anchor bolts (Note: four - 1'/2in, x 60 in, anchor bolts,)
400	LF	862101	7 conductor electrical cable (#14 AWG)
300	LF	862101	5 conductor electrical cable (#14 AWG)
1	EA	800000	14' breakaway pedestrian post.
1	EA	800000	5' pedestrian pedestal
1000	LF	800000	12 pair (No. 19 AWG) communications wire

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION. 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

DESCRIPTION

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

Mr. Richard L. Daff, Sr. Chief, Traffic Operations Design Division

Phone # (410) 787-7630

Phone # (301) 513-7358

Mr.Wayne Mowdy Asst. District Engineer - Maintenance

Phone # (301) 513-7304 Mr. Lee Starkloff District Engineer - Traffic

Mr. Robert Gonzales Engineer III (Montgomery County) Phone # (240) 777-8761

Mr. Augestine Rebish Asst. District Engineer - Utility Phone # (301) 513-7350

Mr. Ed Rodenhizer Signal Shop Supervisor Phone # (410) 787-7652

REVISIONS

WELLS & ASSOCIATES, LLC

TRANSPORTATION, TRAFFIC, AND PARKING CONSULTANTS 1420 Spring Hill Rd.. Suite 600 McLean, VA 22102 Phone: (703) 917-6620 Fax: (703) 917-0739

170 Jennifer Rd., Suite 260 Annapolis, MD 21401 Phone: (301) 970-2402 Fax: (410) 266-9189

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNAL INSTALLATION US 29(GEORGIA AVENUE) / ELLSWORTH DRIVE

DRAWN BY: WT/VLG CHECKED BY: LES @ 3/4 NTS SCALE: DATE: 02-25-04

F.A.P. NO. 4298 S.H.A. NO. COUNTY: MONTGOMERY T.I.M.S. NO. G071 LOG MILE: 15002900.82

SHEET NO.

__2__ OF ___2_